

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/758,203	01/12/2001	Kazuaki Kinjyou	Q62634	8552
75	590 12/24/2003	EXAMINER		
SUGHRUE, N		WILLIAMS, KEVIN D		
MACPEAK & 2100 PENNSY	SEAS, PLLC LVANIA AVENUE, N.W.	ART UNIT	PAPER NUMBER	
	N, DC 20037-3213	•	2854	
				_

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary			Application No.	Applicant(s)				
			09/758,203	KINJYOU, KAZU	KINJYOU, KAZUAKI			
			Examiner	Art Unit	1.11			
			Kevin D. Williams	2854	MW			
Period fe	The MAILING DATE of this communic or Reply	cation appe	ars on the cover sheet t	with the correspondence a	ddress			
THE - Exte after - If the - If NO - Failt - Any	IORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply we reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(nication. days, a reply w utory period will rill, by statute, ca	(a). In no event, however, may a ithin the statutory minimum of the apply and will expire SIX (6) MC ause the application to become a	a reply be timely filed nirty (30) days will be considered tim DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	ely. communication.			
1)[\]	Responsive to communication(s) filed	on <u>26 Oct</u>	ober 2003.					
2a)⊠	☐ This action is FINAL . 2b)☐ This action is non-final.							
3)[Since this application is in condition for closed in accordance with the practice				ne merits is			
Disposit	ion of Claims							
4)🛛	Claim(s) 1-7 is/are pending in the app	lication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-7</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction	on and/or e	election requirement.					
Applicat	ion Papers							
9)[The specification is objected to by the	Examiner.						
10)⊠	The drawing(s) filed on 02 May 2003 is	s/are: a)⊠	accepted or b)☐ obje	ected to by the Examiner.				
	Applicant may not request that any objecti	ion to the dra	awing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the	he correctior	n is required if the drawing	g(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to b	by the Exar	niner. Note the attache	ed Office Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. §§ 119 and 120							
12)⊠ a)∣	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of	ocuments hocuments h	nave been received. nave been received in a documents have been	Application No.	l Stage			
13)∏ <i>A</i> si 3	application from the International See the attached detailed Office action acknowledgment is made of a claim for ince a specific reference was included 7 CFR 1.78. The translation of the foreign langer	for a list of domestic p in the first s	the certified copies no priority under 35 U.S.C sentence of the specific	. § 119(e) (to a provisiona cation or in an Application	al application) n Data Sheet.			
14) 🗌 A	Acknowledgment is made of a claim for eference was included in the first senter	domestic p	oriority under 35 U.S.C	. §§ 120 and/or 121 since	a specific CFR 1.78.			
Attachmen	t(s)							
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449) Pap		5) Notice of	Summary (PTO-413) Paper No Informal Patent Application (PTone, marked-up fig. 6b.				

Application/Control Number: 09/758,203

Art Unit: 2854

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

Applicant's originally filed application referred to the rounded portions of the removing claw as being "chamfered." Applicant has now amended the claims to refer to these features as being "rounded." The specification still refers to these features using the term "chamfered." Applicant should amend the specification to use the "rounded" language in order to be consistent with the claims. Appropriate correction is required.

Claim Objections

2. Claims 1-7 are objected to because of the following informalities:

In claim 1, line 12, claim 4, line 8, and claim 7, lines 13 and 15, the limitation "the rounded portions" lacks proper antecedent basis. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 2 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Page 2

In claims 1 and 4, applicant claims "a removing claw having an upper face." In claims 2 and 5, applicant claims "the upper face of the tip." There appears to be a lack of proper antecedent basis for "the upper face of the tip" recited in claims 2 and 5 and it is unclear whether applicant is referring to the same upper face recited earlier in claims 1 and 4.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art (AAPA) in view of Sone (US 4,447,054).

Applicant's admitted prior art teaches a recording apparatus comprising removing means for removing a recording medium from the medium fixing member, a thin film toner sheet, said recording medium being fixed to a medium fixing member such that an active surface of the recording medium is facing to the medium fixing member, the removing means having a removing claw, the removing claw having an upper face (Fig. 7b) that is operative to contact the recording medium, side faces (Fig. 7a) respectively having a height reduced toward a tip (specification pgs. 1-10, figures 2, 3, 4, 5, 7).

With respect to claim 7, AAPA teaches a recording method comprising the steps of fixing an image receiving sheet onto the medium fixing member, said image receiving sheet having an image receiving layer to receive an image of a recorded image, fixing

Page 4

the toner sheet onto the image receiving sheet, and removing the toner sheet or the image sheet from the medium fixing member.

Applicant's admitted prior art does not teach portions joining the upper face and the side faces respectively being rounded and extending along the length of the side faces, a non-curvilinear portion being provided between the rounded portions, and the rounded portion having a radius of curvature of r=1 mm or more and an upper face of the tip having a face pressure of 1 Kpa or less received from the recording medium being removed.

Sone teaches a recording apparatus with a removing claw 1 having portions joining the upper face (noted in Fig. 6b) and the side faces (noted in Fig. B) respectively being rounded and extending along the length of the side faces, a non-curvilinear portion being provided between the rounded portions (upper face; Fig. 6b).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify AAPA to have the rounded portions as taught by Sone, in order to prevent damage to the recording medium, the toner sheet, and the fixing member.

It also would have been obvious to modify AAPA to have the rounded portion having a radius of curvature of r=1 mm or more and an upper face of the tip having a face pressure of 1 Kpa or less received from the recording medium being removed, as it is obvious to modify a particular feature of a device to a specific degree according to the particular device and operation at hand. "Where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." MPEP 2144.05 (II)(A). For example, since Sone teaches

Art Unit: 2854

a radius of curvature, it would be obvious to modify that radius of curvature according to the overall size of the removing claw.

Response to Arguments

7. Applicant's arguments filed 10/16/2003 have been fully considered but they are not persuasive.

Applicant argues that the examiner's rejection based on the combination of AAPA and Sone modifies AAPA by adding the arrowhead-shaped portion of Sone to AAPA. This is not the modification of AAPA that the examiner is relying upon. As described in the above rejection, AAPA teaches an upper face and side faces that are respectively joined to the upper face. The portions that join the side faces to the upper face are not rounded in AAPA. Sone also teaches a removing claw having an upper face and side faces that are respectively joined to the upper face. Sone discloses rounded portions joining the side faces to the upper face. In the rejection combining AAPA with Sone, the examiner is only modifying AAPA to replace the unrounded portions joining the side faces to the upper face with rounded portions as taught by Sone.

Applicant argues that a particular parameter must first be recognized as a result effective variable before the determination of the optimum or workable ranges of the variable might be characterized as routine experimentation. Applicant further argues that the prior art does not recognize the radius of curvature and the face pressure as result-effective variables. Sone discloses several embodiments of the removing claw,

Application/Control Number: 09/758,203

Art Unit: 2854

including the removing claws disclosed in figures 1, 6a, and 6b. The removing claws disclosed in figures 6a and 6b each have rounded portions having different radii of curvature. The surface area of the claw that contacts the sheet in figure 6a is also different from the surface area of the claw that contacts the sheet in figure 6b. The size of the contact surface area is directly proportional to the face pressure exerted on the claw by the sheet. Sone's recognition that the radius of curvature and the contact surface area are result-effective variables is evidenced by his disclosure of embodiments that vary the radius of curvature and the contact surface area. It is unlikely that Sone would disclose embodiments varying these variables if there were no advantages to be gained from the particular embodiments disclosed. Therefore, the prior art, namely Sone, does recognize the radius of curvature and the face pressure as result-effective variables.

Page 6

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin D. Williams whose telephone number is (703) 305-3036. The examiner can normally be reached on Monday - Friday, 8:30am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew H. Hirshfeld can be reached on (703) 305-6619. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

KDW December 21, 2003

FIG. 4a

FIG. 4b





FIG. 5a

FIG. 5b

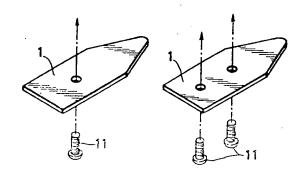


FIG. 6a

FIG. 6b

